Health Effects of Indoor Formaldehyde Exposure, M.B. Schenker and S.T. Weiss, Channing Laboratory, Harvard Medical School, Boston, Massachusetts Environmental Aspects of Cardiovascular Disease, W.J. Rea, R.E. Smiley, D.E. Sprague, R.T. Edgar, E.J. Fenyves, M. Greenberg, and A.R. Johnson, Brookhaven Environmental Unit, Dallas, Texas

Morning Parallel Session

9:00 a.m.-12:30 p.m.

Session C2-Characterization of Aerosols and Inorganic Gases in Indoor Environment

Chairpersons: Morton Lippman, Institute of Environmental Medicine, New York University, New York, New York; Donald Johnson, Gas Research Institute, Chicago, III.

Effect of Cigarette Smoking on Residential NO₂ Levels, B.W. Good, G. Vilcins, W.R. Harvey, G.T. Forrest, A. Clabo, and A.L. Lewis, Research and Development, Philip Morris, Inc., Richmond, Virginia

Indoor-Outdoor Air Quality Comparisons in Ten Residential Environments, S.D. Colome, Program in Social Ecology, University of California, Irvine, California; J.D. Spengler, and S. McCarthy, Harvard School of Public Health, Boston, Massachusetts

Spatial Variation of Carbon-Monoxide and Oxides of Nitrogen Concentrations Inside Residences, D. Moschandreas and J. Zabransky, Geomet Technologies, Rockville, Maryland

Pollutant Emission and Source Strengths from Indoor Combustion Appliances and Smoking, J.R. Girman, M.G. Apte, and G.W. Traynor, Energy and Environment Division, Lawrence Berkeley Laboratory, University of California, Berkeley, California

NO₂ Formation in Range-Top Burners, R.W. Coutant, E.L. Merryman, and A. Levy, Battelle-Columbus Laboratories, Columbus, Ohio

Impact of Residential Wood Combustion Appliances on Air Quality, N.G. Edmisten, K. Lepic and J. Cooper, Oregon Graduate Centre, Beaverton, Oregon

Indoor Carbon Monoxide Pollution in the Netherlands, E. Lebret, B. Brunekreef and J.S.M. Boleij, Department of Environmental and Tropical Health, Wageningen, The Netherlands

Indoor Aerosol Composition and Sources, R.G. Draftz, Fine Particles Research Section, IIT Research Institute, Chicago, Illinois

Elemental Characterization of Indoor Aerosol Sources by Instrumental Neutron Activation Analysis, S. McCarthy, K. Sexton, J.D. Spengler, Harvard School of Public Health, Boston, Massachusetts; A. Pszenny, Graduate School of Oceanography, Narragansett Bay Campus, University of Rhode Island, Kingston, Rhode Island

Experimental Measurements of Aerosol Concentrations in Offices, F.R. Quant, P.A. Nelson, and G.J. Sem, TSI Incorporated, St. Paul, Minnesota Consistent Measurement of Indoor Airborne
Particulates, D.W. Underhill and N. Esmen,
Department of Industrial Environmental Health
Sciences, Graduate School of Public Health,
University of Pittsburgh, Pittsburgh, Pennsylvania

Afternoon Parallel Session

2:00 p.m.-5:30 p.m.

Session D1-Health Effects of Indoor Pollutants

Chairpersons: M. Lebowitz, University Health Sciences Center, The University of Arizona, College of Medicine, Tucson, Arizona; J. Stolwijk, Yale University School of Medicine, New Haven, Connecticut

Respiratory Effects of Household Exposures to Tobacco Smoke and Gas Cooking, G.W. Comstock, M.B. Meyer, K.J. Helsing and M.S. Tockman, School of Hygiene and Public Health, The Johns Hopkins University, Baltimore, Maryland

Pulmonary Functions of Children and Indoor NO, Concentrations in Portage, Wisconsin, R. Letz, J. Ware, B.G. Ferris, Jr., and J.D. Spengler, Harvard School of Public Health, Boston, Massachusetts

The Effect of Passive Smoking on Pulmonary Function in Children, M. Lebowitz, D. Armet, and R.J. Knudson, University of Arizona, College of Medicine, Tucson, Arizona

Effects of Ambient Urban Air Pollution of Asthmatics, F. Silverman, P. Corey, S. Mintz, P. Olver and R. Hosein, The Gage Research Institute, Toronto, Canada

Health Effects of Radon in Homes: An Analysis of the Feasibility of Epidemiological Studies, S. Rasmussen, D. Neuberg, and W. DuMouchel, Massachusetts Institute of Technology, Cambridge, Massachusetts

Lung Cancer and Phosphates, R.L. Fleischer, General Electric Research & Development Center, Schenectady, New York

Airborne Infection, R.L. Riley, Petersham, Massachusetts, Professor Emeritus, The Johns Hopkins University, Baltimore, Maryland

Decreased Pathogenesis During Murine Influenza Pneumonia Produced by Infection with UV-irradiation of Airborne Virus, G.J. Jakab, Department of Environmental Health Sciences, The Johns Hopkins School of Hygiene and Public Health, Baltimore, Maryland

Amoebae as Seurces of Hypersensitivity Pneumonitis, J.L. Sykora, M.H. Karol, G. Keleti and D. Novak, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pennsylvania

The Adverse Health Effects of Biological Aerosols, Other Aerosols, and Micro-Climate Indoors on Asthmatics and Non-Asthmatics, M.D. Lebowitz, University Health Sciences Center, The University of Arizona, College of Medicine, Tucson, Arizona

Health and Behavioral Effects of Small Air Ions,
Jonathan M. Charry, The Rockefeller University, New
York, New York

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Source: https://www.industrydocuments.ucsf.edu/docs/hqvl0000

The Role of Inhaled Chemical Dusts, Vapours and Fumes in the Production of Asthma, J. Pepys, MRC Cardiothoracic Institute, Brompton Hospital, London, England

Afternoon Parallel Session --

2:00-5:30 p.m.

Session D2-Energy Conservation and Indoor Air Quality

Chairpersons: Howard Ross, U.S. Department of Energy, Washington, D.C.; <u>David Berg</u>, U.S. Environmental Protection Agency, Washington, D.C.

Results of the Modular Retrofit Experiment: A Test of the House Doctor Concept, G. Dutt, D.T. Harrie, M. Lavine, G. Linteris, and R. Socolow, Center for Energy and Environmental Studies, Princeton University, Princeton, New Jersey

Indoor Air Quality in Energy Efficient Homes and Retrofitted Residences, R.A. Young, J.V. Berk, S.R. Brown, and J. Dillworth, Energy and Environmental Division, Lawrence Berkeley Laboratory, University of California, Berkeley, California

Indoor Air Quality Audits in Energy Efficient Residences, J.J. Everett, Environmental Research Division, Sandia National Laboratories, Albuquerque, New Mexico; John Mathur, Engineering Division, U.S. Department of Energy, Washington, D.C.

Changes in Indoor Climate After Tightening of Apartments, J. Korsgaard, University of Aarhus, Arhus, Denmark

Analysis of Energy-Efficient Strategies for Increasing Ventilation Rates in Residences, D. Lord, Building Research Advisory Board, National Research Council, Washington, D.C.

Performance Measures for Residential Air-to-Air Heat Exchangers, W.J. Fisk and C.D. Hollowell, Energy and Environment Division, Lawrence Berkeley Laboratory, University of California, Berkeley, California

Air Quality Control of Ventilation in an Office Building, O. Seppanen and A. Punttila, EKONO Consulting Engineers, Bellevue, Washington, U.S.A. and Helsinki, Finland

The Influence of Ventilation on Indoor/Outdoor Air Contaminants in an Office Building, B. Berglund, I. Johansson, and T. Lindvall, University of Stockholm, Stockholm, Sweden

Indoor Climate In Low-Ventilated Daycare Institutions, G.R. Lundqvist, University of Aarhus, Arhus, Denmark

Low Infiltration Housing in Rochester, New York: A Study of Air-Exchange Rates and Indoor Air Quality, F.J. Offermann, C.D. Hollowell, and G.D. Roseme, Lawrence Berkeley Laboratory, University of California, Berkeley, California

Evaluation of an Air-to-Air Heat Exchanger, A. Persily, Center for Energy and Environmental Studies, Princeton University, Princeton, New Jersey

THURSDAY, OCT. 15

Morning Parallel Session

9:00 a.m.-12:30 p.n

Session E1-Ventilation and Controls

Chairpersons: James E. Woods, Jr., Iowa State University, Ames, Iowa; Peter R. Warren, Building Research Station, Herfordshire, England

The Influence of Air Temperature on the Perception of Body Odor, B. Berg-Munch and P.O. Fanger, Laboratory of Heating and Air Conditioning, Technical University of Denmark, Lyngby, Denmark

Ventilation and the Control of Occupancy Odor and Tobacco Smoke Odor, W.S. Cain, B.P. Leaderer, R. Isseroff, and E.D. Lipsitt, Department of Epidemiology and Public Health, John B. Pierce Foundation Laboratory and Yale University School of Medicine, New Haven, Connecticut

Ventilation Requirements in Occupied Spaces for Control of Total Suspended Particulates and Carbon Monoxide Generated from Tobacco Smoke, B.P. Leaderer, W.S. Cain, R. Isseroff and L.G. Berglund, Department of Epidemiology and Public Health, John B. Pierce Foundation Laboratory and Yale University School of Medicine, New Haven, Connecticut

Indoor Air Quality and Minimum Ventilation Rate, G. Huber and H. Wanner, Department of Hygiene and Applied Physiology, Swiss Federal Institute of Technology, Zurich, Switzerland

The Effects of Ventilation on Indoor Air Pollution from a Gas-Fired Stove: Tests Results from a Single-Family Dwelling, G.W. Traynor, V.M. Martin, and E.M. Sterling, Building Ventilation and Indoor Air Quality Program, Energy and Environment Division, Lawrence Berkeley Laboratory, University of California, Berkeley, California

Kitchen Range Hood and Energy Conservation, R.M. Kelso, University of Tennessee, Knoxville, Tennessee

Minimum Acceptable Infiltration Rates for Buildings, J.P. Monat and R.H. Chin, Walden Division of Abcor, Inc., Wilmington, Massachusetts

Calculation of Ventilation Requirements in the Case of Intermittent Pollution, J. Hannay and F. Lorenz, Laboratories de Physique du Batiment, Faculté des Sciences Appliquées, Université de Liege, Liege, Belgium

Ventilation for Control of Indoor Air Quality, J.E. Janssen, J.E. Woods, T.J. Hill and E. Maldinado, Technology Strategy Center, Honeywell Control Systems, Roseville, Minnesota

Aspects of Efficient Ventilation in Office Rooms, T. Malmstroem, Division for Heating and Ventilating, Royal Institute of Technology, Stockholm, Sweden

Building, Ventilation and Indoor Contaminants, E. Skaret, Division of Heating and Ventilating, The Norwegian Institute of Technology, The University of Trondheim, Trondheim, Norway

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Symposium Outline

M SO PN SI	D A Y ., SO C THO BEER 1 2
5:00 p.m8:30 p.m.	Registration
5:00 p.m8:30 p.m.	Reception
TAU SE SS	D TA TY, O C TO B E R 123
7:30 a.m8:30 a.m.	Breakfast for Speakers and Session Chairpersons
9:00 a.m12:30 p.m.	Opening Session A: Characterization of the Indoor Environment
2:00 p.m5:30 p.m.	Parallel Session BI: Characterization of Radon in the Indoor Environment Parallel Session B2: Characterization of Formaldehyde and other Organic Pollutants in the Indoor Environment
5:30 p.m7:00 p.m.	Social Hour
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7:30 a.m8:30 a.m.	Breakfast for Speakers and Session Chairpersons
9:00 a.m12:30 p.m.	Parallel Session C1: Health Effects of Indoor Pollutants Parallel Session C2: Characterization of Aerosols and Inorganic Gases in the Indoor Environment
2:00 p.m5:30 p.m.	Parallel Session D1: Health Effects of Indoor Pollutants Parallel Session D2: Energy Conservation and Indoor Air Quality
5:30 p.m7:00 p.m.	Social Hour
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7:30 a.m8:30 a.m.	Breakfast for Speakers and Session Chairpersons
9:00 a.m12:30 p.m.	Parallel Session E1: Ventilation and Controls Parallel Session E2: Exposure Studies
12:45 p.m2:30 p.m.	Northfield Mountain Box Lunch Mt. Sugarloaf .
2:45 p.m6:00 p.m.	Parallel Session F1: Ventilation and Controls Parallel Session F2: Models for Indoor Air Quality and Energy Conservation
6:00 p.m7:00 p.m.	Social Hour
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7:30 a.m8:30 a.m.	Breakfast for Speakers and Session Chairpersons
9:00 a.m12:30 p.m.	Session G1: Policy and Regulatory Issues

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